## (19) World Intellectual Property Organization International Bureau





### (43) International Publication Date 18 January 2001 (18.01.2001)

### PCI

# (10) International Publication Number WO 01/03707 A1

(51) International Patent Classification<sup>7</sup>: A61K 33/00, 31/44

(21) International Application Number: PCT/US00/18896

(22) International Filing Date: 12 July 2000 (12.07.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/143,407 12 July 1999 (12.07.1999) US

(71) Applicant (for all designated States except US):
SMITHKLINE BEECHAM CORPORATION
[US/US]; One Franklin Plaza, Philadelphia, PA 19103
(US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MANDEL, Kenneth, G. [US/US]; 9 Doric Avenue, Parsippany, NJ 07054 (US). JOHNSON, Steven, M. [US/US]; 30 Manor Lane, Morris Plains, NJ 07950 (US).

(74) Agents: DINNER, Dara, L. et al.; SmithKline Beecham Corporation, Corporate Intellectual Property, UW2220, 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406-0939 (US).

(81) Designated States (national): AE, AL, AU, BA, BB, BG, BR, CA, CN, CZ, DZ, EE, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, TZ, UA, US, UZ, VN, YU, ZA.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

11/03707 A

(54) Title: HEARTBURN TREATMENT

(57) Abstract: The present invention is directed to the use of an alkali metal salt of a bicarbonate, preferably sodium bicarbonate, and an effective amount of a proton pump inhibitor in combination for the treatment of heartburn symptoms.